

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-74. (Canceled).

75. (Currently Amended) A system for the infusion of a pharmacological solution in a patient, comprising:

an elastomeric container for containing a pharmacological solution and for generating a flow of ~~said~~ the pharmacological solution from said container to a catheter insertable in the body of the patient, said elastomeric container, in use, exerting a pressure on ~~said~~ the pharmacological solution that generates ~~said~~ the flow;

a valve arrangement to vary ~~said~~ the flow;

a command and control device operationally connected to said valve arrangement to command a pulsed actuation of said valve arrangement, ~~said~~ the flow being determined by the number of actuations of said valve arrangement per unit time; ~~and~~

an infusion protocol according to which ~~said~~ the pulsed actuation is made, said infusion protocol ~~comprising a pre-programmed series of openings and closings of said valve arrangement with preset durations and at preset intervals of time~~ being stored on a data-processing system or on a data-storage support, said stored infusion protocol being not modifiable; and

said stored infusion protocol including at least an infusion curve, said infusion curve being defined by definition parameters comprising a duration of infusion, a volume of pharmacological solution to be infused, and a type of the infusion curve, wherein a number, a

duration and a distribution of opening cycles of said valve arrangement are calculated to plot said infusion curve.

76. (Previously Presented) The system according to claim 75, wherein said valve arrangement comprises a valve of the normally closed type.

77. (Previously Presented) The system according to claim 75, wherein said valve arrangement comprises at least one solenoid valve.

78. (Previously Presented) The system according to claim 75, wherein said command and control device comprises a microprocessor operationally connected to said valve arrangement.

79. (Previously Presented) The system according to claim 75, wherein said elastomeric container is supported on a support element associated with a containing and protection element.

80. (Previously Presented) The system according to claim 79, wherein said containing and protection element is made of transparent material and is equipped on its outside surface with a graduated scale.

81. (Currently Amended) The system according to claim 79, wherein said containing and protection element comprises an inlet portion connected to said elastomeric container to introduce therein ~~said~~ the pharmacological solution.

82. (Currently Amended) The system according to claim 81, wherein said inlet portion is associated with a connecting element suitable for enabling coupling of said inlet portion with an introducing device, to introduce ~~said~~ the pharmacological solution into said inlet portion.

83. (Previously Presented) The system according to claim 81, wherein said containing and protection element furthermore comprises an outlet portion connected to said elastomeric container, through which the pharmacological solution introduced into the elastomeric container can flow out thereof.

84. (Previously Presented) The system according to claim 83, wherein said outlet portion is suitable for being connected to a first end of a fitting element, a second end of which is connected to said valve arrangement.

85. (Previously Presented) The system according claim 84, wherein said valve arrangement is associated with a further connecting element suitable for enabling coupling of said valve arrangement with a delivery device, for administration of the pharmacological solution.

86. (Previously Presented) The system according to claim 75, comprising an interface element for operationally connecting said command and control device with a data processing system.

87. (Previously Presented) The system according to claim 75, wherein said command and control device comprises a reading device suitable for receiving a data recording support and for reading data stored thereupon.

88. (Previously Presented) The system according to claim 87, wherein said data recording support is a data recording support of the smart-card type.

89. (Previously Presented) The system according to claim 75, comprising a battery to supply power to said command and control device.

90. (Previously Presented) The system according to claim 89, wherein said battery is of the rechargeable or replaceable type.

91. (Previously Presented) The system according to claim 75, wherein said command and control device comprises a microprocessor operationally connected to said valve arrangement, said infusion protocol being stored in said microprocessor.

92. (Previously Presented) The system according to claim 75, wherein the elastomeric container is structured or configured to exert a pressure on the pharmacological solution that has a substantially constant value.

Claims 93-94. (Canceled).